

## Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>INDIANA, Southeast</b>				

### WAYNE COUNTY --- RICHMOND [39.83, -84.90], 5.0 NE RICHMOND [39.88, -84.83]

07/11/11 20:32 EST	60K	Thunderstorm Wind (EG 50 kt)
07/11/11 20:36 EST	0	Source: Emergency Manager

Four trees fell on a house. Numerous other trees were reported down in the area. A house sustained roof damage. A trailer was pushed onto a porch. The roof was blown off of a press box and a dugout at a stadium. These occurrences were due to damaging thunderstorm winds.

Thunderstorms developed along a trough axis in northern Indiana. These storms became severe before exiting Indiana and then moving south and southeast across western and south central parts of Ohio. One these severe storms moved into Northern Kentucky before weakening. The main severe weather threats from these storms were damaging winds and large hail.

### KENTUCKY, Northern

#### LEWIS COUNTY --- 0.8 WSW QUINCY [38.62, -83.14]

07/11/11 22:43 EST	2K	Thunderstorm Wind (EG 50 kt)
07/11/11 22:47 EST	0	Source: Law Enforcement

Trees were reported down across railroad tracks due to damaging thunderstorm winds.

Thunderstorms developed along a trough axis in northern Indiana. These storms became severe before exiting Indiana and then moving south and southeast across western and south central parts of Ohio. One these severe storms moved into Northern Kentucky before weakening. The main severe weather threats from these storms were damaging winds and large hail.

#### OWEN COUNTY --- GRATZ [38.47, -84.95]

07/12/11 17:15 EST	0	Hail (0.88 in)
07/12/11 17:19 EST	0	Source: Emergency Manager

Strong thunderstorms developed along a moisture boundary across northern Kentucky during the late afternoon. The main threat from these storms was large hail.

#### BRACKEN COUNTY --- 2.0 SSW JOHNSVILLE [38.72, -84.16]

07/19/11 18:30 EST	1K	Thunderstorm Wind (EG 50 kt)
07/19/11 18:34 EST	0	Source: Law Enforcement

Two trees were reported down due to damaging thunderstorm winds.

Weak low level convergence combined with a very unstable air mass to produce strong to severe thunderstorms across southern Ohio and northern Kentucky.

#### CAMPBELL COUNTY --- 4.0 ENE ALEXANDRIA [38.99, -84.31]

07/20/11 16:35 EST	0	Hail (1.00 in)
07/20/11 16:39 EST	0	Source: Trained Spotter

#### CAMPBELL COUNTY --- CALIFORNIA [38.92, -84.27]

07/20/11 16:40 EST	0	Hail (0.75 in)
07/20/11 16:44 EST	0	Source: Public

Isolated to scattered thunderstorms developed during the heating of the day. Some of these storms became severe during the late afternoon. The severe weather threats from these storms were large hail and damaging thunderstorm winds.

### OHIO, Southwest

#### MADISON COUNTY --- 5.0 NW LONDON [39.93, -83.52]

07/07/11 20:44 EST	22K	Thunderstorm Wind (EG 50 kt)
07/07/11 20:48 EST	0	Source: Law Enforcement

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Two barns were knocked down and wires were reported down near Highway 40. Trees were also reported down in the area. These occurrences were due to damaging thunderstorm winds.				

**A boundary stretching near the Interstate 70 corridor was the focus for the development of isolated thunderstorms during the evening. One of these storms briefly became severe. The main severe weather threat was damaging thunderstorm winds.**

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### SCIOTO COUNTY --- PORTSMOUTH [38.73, -82.98]

07/08/11 07:00 EST	0	Heavy Rain
07/08/11 08:00 EST	0	Source: Emergency Manager

Urban and street flooding impeded travel in the Portsmouth area due to heavy rain.

**Showers and thunderstorms moved across southern Ohio and northern Kentucky ahead of a shortwave trough extending from Indiana to Tennessee. These storms produced heavy rainfall in the area.**

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### HARDIN COUNTY --- 3.0 S ADA [40.73, -83.82]

07/11/11 12:15 EST	3K	Thunderstorm Wind (EG 50 kt)
07/11/11 12:19 EST	0	Source: Law Enforcement

Several trees were reported down due to damaging thunderstorm winds.

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### LOGAN COUNTY --- LAKEVIEW [40.48, -83.92]

07/11/11 12:40 EST	3K	Thunderstorm Wind (EG 50 kt)
07/11/11 12:44 EST	0	Source: Law Enforcement

Two trees were reported down and power lines were reported down due to damaging thunderstorm winds.

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### UNION COUNTY --- MARYSVILLE [40.23, -83.37]

07/11/11 13:00 EST	3K	Thunderstorm Wind (EG 50 kt)
07/11/11 13:04 EST	0	Source: Law Enforcement

A few trees and power lines were reported down due to damaging thunderstorm winds.

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### LICKING COUNTY --- JOHNSTOWN [40.15, -82.68]

07/11/11 13:20 EST	0	Thunderstorm Wind (MG 58 kt)
07/11/11 13:21 EST	0	Source: Trained Spotter

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### MIAMI COUNTY --- 1.0 W LENA [40.13, -84.05]

07/11/11 13:30 EST	0	Hail (0.88 in)
07/11/11 13:34 EST	0	Source: Public

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### LICKING COUNTY --- KIRKERSVILLE [39.95, -82.60]

07/11/11 13:35 EST	3K	Thunderstorm Wind (EG 50 kt)
07/11/11 13:39 EST	0	Source: Law Enforcement

A few trees and power lines were reported down due to damaging thunderstorm winds.

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### FAIRFIELD COUNTY --- MILLERSPORT [39.90, -82.53]

07/11/11 13:55 EST	0	Hail (0.75 in)
07/11/11 13:59 EST	0	Source: Trained Spotter

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### CLARK COUNTY --- SPRINGFIELD [39.92, -83.80]

07/11/11 14:00 EST	0	Hail (1.75 in)
07/11/11 14:04 EST	0	Source: Law Enforcement

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### CLARK COUNTY --- 4.0 SSE SPRINGFIELD [39.87, -83.77]

07/11/11 14:10 EST	5K	Thunderstorm Wind (EG 55 kt)
07/11/11 14:14 EST	0	Source: Law Enforcement

Numerous trees were reported down. Power poles were snapped off four feet above the ground. Both occurrences were due to damaging thunderstorm winds.

## Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
<b>CLARK COUNTY --- 1.0 S LIMECREST [39.89, -83.82], SOUTH CHARLESTON [39.82, -83.63]</b>				
	07/11/11 14:15 EST		0	Hail (0.88 in)
	07/11/11 14:27 EST		0	Source: Public
<b>MADISON COUNTY --- SOUTH SOLON [39.73, -83.62]</b>				
	07/11/11 14:30 EST		0	Hail (1.75 in)
	07/11/11 14:34 EST		0	Source: Public
<b>FAYETTE COUNTY --- WASHINGTON COURT HOU [39.53, -83.43]</b>				
	07/11/11 14:46 EST		0	Hail (0.88 in)
	07/11/11 14:50 EST		0	Source: Public
<b>FAYETTE COUNTY --- 3.0 NW JEFFERSONVILLE [39.68, -83.61], WASHINGTON COURT HOU [39.53, -83.43]</b>				
	07/11/11 14:48 EST		0	Hail (1.25 in)
	07/11/11 15:03 EST		0	Source: Trained Spotter
<b>FAYETTE COUNTY --- WASHINGTON COURT HOU [39.53, -83.43]</b>				
	07/11/11 15:06 EST		0	Hail (0.75 in)
	07/11/11 15:10 EST		0	Source: Trained Spotter
<b>CLINTON COUNTY --- 3.0 WSW SABINA [39.46, -83.70]</b>				
	07/11/11 15:29 EST		0	Hail (1.25 in)
	07/11/11 15:30 EST		0	Source: Trained Spotter
<b>HIGHLAND COUNTY --- HILLSBORO [39.20, -83.62], 1.0 E HILLSBORO [39.20, -83.60]</b>				
	07/11/11 15:55 EST		0	Hail (1.00 in)
	07/11/11 16:10 EST		0	Source: Trained Spotter
<b>HIGHLAND COUNTY --- 2.0 W HILLSBORO [39.20, -83.66]</b>				
	07/11/11 16:00 EST		0	Hail (1.50 in)
	07/11/11 16:04 EST		0	Source: Broadcast Media
<b>SCIOTO COUNTY --- ROSEMOUNT [38.78, -82.98]</b>				
	07/11/11 16:15 EST		3K	Thunderstorm Wind (EG 50 kt)
	07/11/11 16:19 EST		0	Source: Law Enforcement
Trees down in Rosemount and numerous other places in the area due to damaging thunderstorm winds.				
<b>SCIOTO COUNTY --- 1.0 W PORTSMOUTH [38.73, -83.00], PORTSMOUTH [38.73, -82.98]</b>				
	07/11/11 17:21 EST		0	Hail (0.88 in)
	07/11/11 17:36 EST		0	Source: Public
High heat and humidity combined with a weak shortwave to produce a mesoscale convective system across the Ohio Valley during the afternoon. Outflow ahead of this system produced severe supercells. The main severe weather threats from these storms were damaging winds and large hail.				
<b>DARKE COUNTY --- VERSAILLES [40.22, -84.48]</b>				
	07/11/11 18:30 EST		0	Hail (0.88 in)
	07/11/11 18:45 EST		0	Source: Public
<b>MIAMI COUNTY --- 4.0 W PIQUA [40.15, -84.31]</b>				
	07/11/11 18:50 EST		0	Hail (1.50 in)
	07/11/11 18:54 EST		0	Source: Public
<b>MIAMI COUNTY --- COVINGTON [40.12, -84.35], PIQUA [40.15, -84.23]</b>				
	07/11/11 18:53 EST		0	Hail (0.88 in)
	07/11/11 18:59 EST		0	Source: Public

## Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MIAMI COUNTY --- PIQUA [40.15, -84.23], 3.0 SSE PIQUA [40.11, -84.21]	07/11/11 18:55 EST		0	Hail (1.00 in)
	07/11/11 18:59 EST		0	Source: Public
MIAMI COUNTY --- COVINGTON [40.12, -84.35]	07/11/11 18:59 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/11/11 19:00 EST		0	Source: Trained Spotter
Large limbs were reported down due to damaging thunderstorm winds.				
MONTGOMERY COUNTY --- 3.0 N VANDALIA [39.92, -84.20]	07/11/11 19:36 EST		0	Hail (1.00 in)
	07/11/11 19:40 EST		0	Source: Public
DARKE COUNTY --- 0.3 S FT JEFFERSON [40.03, -84.67]	07/11/11 19:41 EST		2K	Thunderstorm Wind (EG 50 kt)
	07/11/11 19:45 EST		0	Source: Law Enforcement
Trees were reported down due to damaging thunderstorm winds.				
GREENE COUNTY --- (FFO)WRIGHT-PATT AFB [39.78, -84.08]	07/11/11 19:41 EST		0	Thunderstorm Wind (MG 56 kt)
	07/11/11 19:42 EST		0	Source: ASOS
MONTGOMERY COUNTY --- 2.0 N HUBER HGTS [39.86, -84.13], HUBER HGTS [39.83, -84.13]	07/11/11 19:42 EST		0	Hail (1.00 in)
	07/11/11 19:45 EST		0	Source: Public
MONTGOMERY COUNTY --- HUBER HGTS [39.83, -84.13]	07/11/11 19:42 EST		0	Hail (0.88 in)
	07/11/11 19:45 EST		0	Source: Public
GREENE COUNTY --- 0.9 NW BRYON [39.79, -83.99]	07/11/11 19:44 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/11/11 19:45 EST		0	Source: Trained Spotter
Multiple large tree limbs were reported down due to damaging thunderstorm winds.				
MIAMI COUNTY --- 1.0 S TIPP CITY [39.96, -84.17]	07/11/11 19:44 EST		0	Hail (0.75 in)
	07/11/11 19:45 EST		0	Source: Public
GREENE COUNTY --- FAIRBORN [39.82, -84.02]	07/11/11 19:50 EST		0	Hail (0.75 in)
	07/11/11 19:54 EST		0	Source: Public
GREENE COUNTY --- YELLOW SPGS [39.80, -83.88]	07/11/11 19:53 EST		0	Hail (0.75 in)
	07/11/11 19:57 EST		0	Source: Amateur Radio
GREENE COUNTY --- FAIRBORN [39.82, -84.02]	07/11/11 19:55 EST		0	Hail (0.88 in)
	07/11/11 19:59 EST		0	Source: Public
DARKE COUNTY --- 1.1 NNW CASTINE [39.95, -84.63]	07/11/11 19:57 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/11/11 20:01 EST		0	Source: Law Enforcement

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Power lines and wires were blown down due to damaging thunderstorm winds.				
<b>MONTGOMERY COUNTY --- VANDALIA [39.88, -84.20]</b>				
	07/11/11 19:57 EST		0	Thunderstorm Wind (EG 52 kt)
	07/11/11 19:58 EST		0	Source: Trained Spotter
The spotter estimated the wind gust.				
<b>DARKE COUNTY --- NEW MADISON [39.97, -84.70]</b>				
	07/11/11 19:59 EST		0	Hail (0.88 in)
	07/11/11 20:03 EST		0	Source: County Official
<b>MONTGOMERY COUNTY --- 2.0 N DAYTON [39.78, -84.18], 0.8 SE OAKWOOD [39.71, -84.14]</b>				
	07/11/11 19:59 EST		3K	Thunderstorm Wind (EG 55 kt)
	07/11/11 20:08 EST		0	Source: Amateur Radio
Large limbs were reported broken. A large tree was uprooted. Numerous large tree limbs were down in the road. These occurrences were due to damaging thunderstorm winds.				
<b>DARKE COUNTY --- 1.0 S HOLLANSBURG [39.99, -84.78]</b>				
	07/11/11 20:09 EST		0	Hail (1.00 in)
	07/11/11 20:13 EST		0	Source: Public
<b>MONTGOMERY COUNTY --- 2.0 NE KETTERING [39.75, -84.15], KETTERING [39.73, -84.18]</b>				
	07/11/11 20:23 EST		50K	Thunderstorm Wind (EG 60 kt)
	07/11/11 20:27 EST		0	Source: Newspaper
Many large limbs were reported down. Two roofs were blown off two apartment buildings and into a neighboring yard. Numerous trees and power lines were down throughout eastern Kettering. Kantner Park had a shelter damaged and picnic tables were tossed around. These occurrences were due to damaging thunderstorm winds.				
<b>PREBLE COUNTY --- NEW PARIS [39.85, -84.78]</b>				
	07/11/11 20:23 EST		5K	Thunderstorm Wind (EG 50 kt)
	07/11/11 20:27 EST		0	Source: Law Enforcement
Trees were reported down. Several power poles were reported across a roadway. These occurrences were due to damaging thunderstorm winds.				
<b>MONTGOMERY COUNTY --- 0.6 WSW UNION [39.90, -84.31]</b>				
	07/11/11 20:27 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/11/11 20:31 EST		0	Source: Trained Spotter
Large tree limbs were snapped due to damaging thunderstorm winds.				
<b>CLINTON COUNTY --- 2.0 N WILMINGTON [39.48, -83.83]</b>				
	07/11/11 20:29 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/11/11 20:33 EST		0	Source: NWS Employee
A large tree 30 feet high and 2 feet in diameter was snapped off 4 feet above the ground due to damaging thunderstorm winds.				
<b>FAIRFIELD COUNTY --- LANCASTER [39.72, -82.60]</b>				
	07/11/11 20:29 EST		0	Hail (0.75 in)
	07/11/11 20:33 EST		0	Source: Trained Spotter
<b>FAYETTE COUNTY --- BLOOMINGBURG [39.60, -83.40]</b>				
	07/11/11 20:32 EST		2K	Thunderstorm Wind (EG 50 kt)
	07/11/11 20:36 EST		0	Source: Public
Trees were reported down due to damaging thunderstorm winds.				
<b>CLINTON COUNTY --- 3.0 W MARTINSVILLE [39.32, -83.88]</b>				

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	07/11/11 20:36 EST		5K	Thunderstorm Wind (EG 50 kt)
	07/11/11 20:40 EST		0	Source: Public
A horse shelter was destroyed due to damaging thunderstorm winds.				
<b>GREENE COUNTY --- BEAVERCREEK [39.75, -84.07], 3.0 SSW BEAVERCREEK [39.71, -84.09]</b>				
	07/11/11 20:40 EST		1K	Thunderstorm Wind (EG 52 kt)
	07/11/11 20:50 EST		0	Source: Trained Spotter
Trees limbs were reported down due to damaging thunderstorm winds. The spotter estimated the gust.				
<b>MONTGOMERY COUNTY --- KETTERING [39.73, -84.18]</b>				
	07/11/11 20:40 EST		0	Thunderstorm Wind (EG 56 kt)
	07/11/11 20:41 EST		0	Source: Trained Spotter
The spotter estimated the wind gust.				
<b>MONTGOMERY COUNTY --- 2.0 S KETTERING [39.70, -84.18]</b>				
	07/11/11 20:41 EST		3K	Thunderstorm Wind (EG 52 kt)
	07/11/11 20:50 EST		0	Source: Trained Spotter
Several power poles and large limbs were reported down due to damaging thunderstorm winds. The wind gust report was an estimate.				
<b>GREENE COUNTY --- 4.0 SSW BEAVERCREEK [39.70, -84.10]</b>				
	07/11/11 20:46 EST		0	Hail (0.75 in)
	07/11/11 20:50 EST		0	Source: Public
<b>ROSS COUNTY --- SOUTH SALEM [39.33, -83.32], 3.0 SSE SOUTH SALEM [39.29, -83.30]</b>				
	07/11/11 20:49 EST		2K	Thunderstorm Wind (EG 50 kt)
	07/11/11 20:59 EST		0	Source: Public
One tree with a trunk diameter of 4 feet was snapped off. Numerous tree limbs were reported down or broken. These occurrences were due to damaging thunderstorm winds.				
<b>GREENE COUNTY --- XENIA GREENE CO ARPT [39.68, -83.98]</b>				
	07/11/11 20:56 EST		0	Thunderstorm Wind (MG 67 kt)
	07/11/11 20:57 EST		0	Source: AWOS
<b>PREBLE COUNTY --- EATON [39.75, -84.63]</b>				
	07/11/11 20:59 EST		0	Thunderstorm Wind (MG 55 kt)
	07/11/11 21:00 EST		0	Source: Trained Spotter
<b>GREENE COUNTY --- 3.0 SSE BEAVERCREEK [39.71, -84.05]</b>				
	07/11/11 21:14 EST		2K	Thunderstorm Wind (EG 50 kt)
	07/11/11 21:15 EST		0	Source: Amateur Radio
Healthy trees were reported broken due to damaging thunderstorm winds.				
<b>CLINTON COUNTY --- 2.3 NNW KINGMAN [39.53, -83.97], 1.0 N OGDEN [39.44, -83.92]</b>				
	07/11/11 21:18 EST		3K	Thunderstorm Wind (EG 50 kt)
	07/11/11 21:28 EST		0	Source: NWS Employee
Multiple trees and power lines were reported down due to damaging thunderstorm winds.				
<b>WARREN COUNTY --- 3.0 NNE MIDDLEBORO [39.39, -84.01]</b>				
	07/11/11 21:18 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/11/11 21:22 EST		0	Source: NWS Employee
A large tree was reported down due to damaging thunderstorm winds.				
<b>CLINTON COUNTY --- WILMINGTON [39.45, -83.83]</b>				

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	07/11/11 21:26 EST		10K	Thunderstorm Wind (EG 50 kt)
	07/11/11 21:30 EST		0	Source: Amateur Radio

Siding was reported torn off of a garage. A trailer and a flag pole were damaged. These occurrences were due to damaging thunderstorm winds.

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### WARREN COUNTY --- MAINEVILLE [39.32, -84.22]

07/11/11 21:27 EST	1K	Thunderstorm Wind (EG 50 kt)
07/11/11 21:31 EST	0	Source: Public

Large limbs were reported broken due to damaging thunderstorm winds.

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### WARREN COUNTY --- BLUE BALL [39.50, -84.33]

07/11/11 21:30 EST	3K	Thunderstorm Wind (EG 50 kt)
07/11/11 21:34 EST	0	Source: Public

Numerous trees were reported damaged. Power lines and power poles were reported down. These occurrences were due to damaging thunderstorm winds.

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### BUTLER COUNTY --- MIDDLETOWN [39.52, -84.40]

07/11/11 21:49 EST	1K	Thunderstorm Wind (EG 50 kt)
07/11/11 21:53 EST	0	Source: Trained Spotter

A few trees were damaged about 20 to 30 feet above the ground due to damaging thunderstorm winds.

Thunderstorms developed along a trough axis in northern Indiana. These storms became severe before exiting Indiana and then moving south and southeast across western and south central parts of Ohio. One these severe storms moved into Northern Kentucky before weakening. The main severe weather threats from these storms were damaging winds and large hail.

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### FAIRFIELD COUNTY --- 4.0 NNW LANCASTER [39.77, -82.63]

07/18/11 17:45 EST	2K	Thunderstorm Wind (EG 50 kt)
07/18/11 17:49 EST	0	Source: Trained Spotter

Numerous large limbs were reported down due to damaging thunderstorm winds.

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### FAIRFIELD COUNTY --- BALTIMORE [39.85, -82.60]

07/18/11 17:46 EST	0	Hail (0.88 in)
07/18/11 17:50 EST	0	Source: Trained Spotter

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### FAIRFIELD COUNTY --- 2.0 E DUMONTVILLE [39.77, -82.58], 4.0 NNW LANCASTER [39.77, -82.63], 1.3 NW LANCASTER [39.73, -82.62], 1.4 NE LANCASTER [39.74, -82.58]

07/18/11 18:27 EST	7K	Flash Flood (due to Heavy Rain)
07/18/11 19:40 EST	0	Source: Trained Spotter

Two feet of running water was across Highway 158 in 2 different locations, another road had 3 feet of running water on it, and water was into the first floor of an apartment complex due to heavy rain.

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### HOCKING COUNTY --- 3.0 WSW GIBSONVILLE [39.48, -82.62]

07/18/11 19:10 EST	2K	Thunderstorm Wind (EG 50 kt)
07/18/11 19:14 EST	0	Source: Law Enforcement

Trees were reported down due to damaging thunderstorm winds.

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### HOCKING COUNTY --- 2.0 SE SOUTH BLOOMINGVILLE [39.40, -82.57], 3.1 WSW HESBORO [39.41, -82.52], 2.7 W MT PLEASANT [39.38, -82.52], 3.2 SE SOUTH BLOOMINGVILLE [39.39, -82.56]

07/18/11 19:55 EST	2K	Flash Flood (due to Heavy Rain)
07/18/11 20:45 EST	0	Source: Law Enforcement

High water was over several bridges near the Ash Cave Recreation Area due to heavy rain.

Thunderstorms developed in a very humid airmass over Ohio during the late afternoon. Some of these storms became severe. With the large amount of moisture to work with, some of these storms also produced flash flooding. The storms persisted into the early evening hours. The severe weather threats were large hail, damaging thunderstorm winds, and flash flooding.

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<b>CLERMONT COUNTY --- 5.0 S BETHEL [38.90, -84.08], 1.1 NNW CHILO [38.79, -84.14]</b>				
	07/19/11 17:50 EST		10K	Thunderstorm Wind (EG 50 kt)
	07/19/11 18:05 EST		0	Source: Law Enforcement
Several trees were reported down. A healthy tree was broken and thrown 15 feet into a car and pole barn, both of which were damaged. Numerous power outages were also reported in the area. These occurrences were due to damaging thunderstorm winds.				
<b>CLERMONT COUNTY --- FELICITY [38.83, -84.10], 0.9 NNW FELICITY [38.84, -84.10], 1.0 NNE FELICITY [38.84, -84.09], 0.7 ENE FELICITY [38.83, -84.09]</b>				
	07/19/11 18:30 EST		1K	Flash Flood (due to Heavy Rain)
	07/19/11 19:30 EST		0	Source: Law Enforcement
High water was reported on a few roads around Felicity due to heavy rainfall.				
<b>Weak low level convergence combined with a very unstable air mass to produce strong to severe thunderstorms across southern Ohio and northern Kentucky. The slow movement of these storms also produced flash flooding. The severe weather threats during the afternoon were damaging thunderstorm winds and flash flooding.</b>				
<b>FAIRFIELD COUNTY --- 4.0 E LITHOPOLIS [39.80, -82.72]</b>				
	07/20/11 15:43 EST		3K	Thunderstorm Wind (EG 50 kt)
	07/20/11 15:47 EST		0	Source: Law Enforcement
Numerous trees were reported down due to damaging thunderstorm winds.				
<b>CLERMONT COUNTY --- NEW RICHMOND [38.95, -84.28]</b>				
	07/20/11 16:28 EST		0	Hail (1.00 in)
	07/20/11 16:32 EST		0	Source: Public
<b>HOCKING COUNTY --- 3.0 WSW GIBISONVILLE [39.48, -82.62]</b>				
	07/20/11 16:35 EST		3K	Thunderstorm Wind (EG 50 kt)
	07/20/11 16:39 EST		0	Source: Law Enforcement
Trees and wires were reported down in several locations due to damaging thunderstorm winds.				
<b>DARKE COUNTY --- UNION CITY [40.22, -84.80], 4.0 SE UNION CITY [40.18, -84.75]</b>				
	07/20/11 17:22 EST		60K	Thunderstorm Wind (EG 78 kt)
	07/20/11 17:26 EST		10K	Source: NWS Storm Survey
Barns were damaged extensively. An agricultural hopper was moved approximately 1000 feet. Large trees and limbs were snapped in several locations. Corn fields were flattened. Vegetation was removed from a 30 foot area in a farm field. These occurrences were due to damaging thunderstorm winds. The wind speed was estimated by the damage assessment.				
<b>DARKE COUNTY --- 6.0 WSW NEW MADISON [39.94, -84.80]</b>				
	07/20/11 18:10 EST		8K	Thunderstorm Wind (EG 50 kt)
	07/20/11 18:14 EST		0	Source: Law Enforcement
A roof was blown off of a barn due to damaging thunderstorm winds.				
<b>BUTLER COUNTY --- OXFORD [39.52, -84.73]</b>				
	07/20/11 18:20 EST		0	Hail (0.88 in)
	07/20/11 18:24 EST		0	Source: Trained Spotter
<b>Isolated to scattered thunderstorms developed during the heating of the day. Some of these storms became severe during the late afternoon. The severe weather threats from these storms were large hail and damaging thunderstorm winds.</b>				
<b>AUGLAIZE COUNTY --- 5.0 ENE WAPAKONETA [40.60, -84.11]</b>				
	07/22/11 15:20 EST		25K	Thunderstorm Wind (EG 50 kt)
	07/22/11 15:24 EST		0	Source: Trained Spotter
A pole barn was destroyed due to damaging thunderstorm winds.				
<b>AUGLAIZE COUNTY --- ST MARYS [40.53, -84.38]</b>				



## Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/22/11 15:22 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/22/11 15:26 EST		0	Source: Trained Spotter

A steel roof was torn off of an outbuilding due to damaging thunderstorm winds.

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### SCIOTO COUNTY --- 2.0 NNW OTWAY [38.90, -83.19]

07/22/11 18:11 EST	3K	Thunderstorm Wind (EG 50 kt)
07/22/11 18:15 EST	0	Source: Trained Spotter

Several trees were reported down due to damaging thunderstorm winds.

**Shortwave energy moving across northern and central Ohio interacted with a very unstable airmass to produce severe thunderstorms during the afternoon. The main threat from these storms was damaging thunderstorm winds.**

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### HARDIN COUNTY --- 0.8 N PATTERSON [40.79, -83.52], 0.5 N MC VITTYS [40.78, -83.53], 0.3 SW PATTERSON [40.78, -83.52], 0.6 NNE PATTERSON [40.79, -83.52]

07/23/11 16:01 EST	1K	Flash Flood (due to Heavy Rain)
07/23/11 17:01 EST	0	Source: Law Enforcement

A highway south of Forest was closed with 3 to 5 feet of water over the road due to heavy rainfall.

**Scattered thunderstorms developed across central Ohio ahead of an approaching frontal boundary. Some of these storms moved over the same area as previous storms the same afternoon. The heavy rain that resulted from these repeated thunderstorms produced flash flooding.**

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### FRANKLIN COUNTY --- 1.3 NE WESTERVILLE [40.13, -82.90], 1.3 NE WESTERVILLE [40.13, -82.90], 1.7 NE WESTERVILLE [40.13, -82.89], 1.6 ENE WESTERVILLE [40.13, -82.89]

07/24/11 00:05 EST	10K	Flash Flood (due to Heavy Rain)
07/24/11 01:05 EST	0	Source: Law Enforcement

County line road was closed between Spring Road and Hempstead Road due to high water caused by heavy rain. One car was stranded in the high water.

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### FRANKLIN COUNTY --- 1.8 E BRIGGSDALE [39.92, -83.04]

07/24/11 02:16 EST	3K	Thunderstorm Wind (EG 50 kt)
07/24/11 02:20 EST	0	Source: Fire Department/Rescue

Numerous trees were reported down in the area due to damaging thunderstorm winds.

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### DELAWARE COUNTY --- CENTER VLG [40.17, -82.80], 0.8 SSE CENTER VLG ARPT [40.16, -82.77], 0.9 E HARLEM [40.15, -82.81], 1.0 W CENTER VLG [40.17, -82.82]

07/24/11 03:00 EST	20K	Flash Flood (due to Heavy Rain)
07/24/11 04:00 EST	0	Source: Law Enforcement

Roads were closed due to high water caused by heavy rain. Some driveways were washed out.

**A weak shortwave combined with bulk shear and instability to produce thunderstorms during the early morning. One of these storms briefly became severe. The persistence of these storms along a convergence boundary also produced flash flooding in the area. The main threats from these storms was flash flooding due to heavy rainfall and damaging thunderstorm winds.**

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### BUTLER COUNTY --- 6.0 W MIDDLETOWN [39.52, -84.51]

07/24/11 14:20 EST	10K	Thunderstorm Wind (EG 50 kt)
07/24/11 14:24 EST	1K	Source: Law Enforcement

A boat was flipped over, shingles were blown off of a house, crops were bent over, and a tree was reported down due to damaging thunderstorm winds.

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### MONTGOMERY COUNTY --- 1.0 SW CENTERVILLE [39.61, -84.16], CENTERVILLE [39.62, -84.15]

07/24/11 14:21 EST	5K	Thunderstorm Wind (EG 52 kt)
07/24/11 14:29 EST	0	Source: Trained Spotter

Several large limbs, trees, and power lines were reported down due to damaging thunderstorm winds. The spotter estimated the wind gust.

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### MONTGOMERY COUNTY --- 2.3 S SINGING HILLS [39.62, -84.24]

## Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	07/24/11 14:29 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/24/11 14:33 EST		0	Source: NWS Employee
Large limbs were reported down due to damaging thunderstorm winds.				
<b>LOGAN COUNTY --- 4.0 S BELLE CENTER [40.44, -83.75]</b>				
	07/24/11 17:10 EST		0	Heavy Rain
	07/24/11 18:10 EST		0	Source: Law Enforcement
Four to five inches of water was over roads in the area due to heavy rain.				
<b>FRANKLIN COUNTY --- 1.0 N COLUMBUS SO COLUMBUS [39.89, -82.97]</b>				
	07/24/11 17:15 EST		2K	Thunderstorm Wind (EG 50 kt)
	07/24/11 17:19 EST		0	Source: Broadcast Media
Trees were reported down due to damaging thunderstorm winds.				
<b>FRANKLIN COUNTY --- 1.0 N SOUTH COLUMBUS [39.93, -83.00], 0.9 NNE SOUTH COLUMBUS [39.93, -83.00], 0.9 NNE SOUTH COLUMBUS [39.93, -83.00], 1.1 NNE SOUTH COLUMBUS [39.93, -83.00]</b>				
	07/24/11 17:28 EST		30K	Flash Flood (due to Heavy Rain)
	07/24/11 18:28 EST		0	Source: Trained Spotter
Cars were stalled in moving water with water up to hoods of some cars on High Street due to heavy rain.				
<b>FRANKLIN COUNTY --- 4.0 NNE COLUMBUS SO COLUMBUS [39.93, -82.94]</b>				
	07/24/11 17:30 EST		0	Heavy Rain
	07/24/11 18:30 EST		0	Source: Amateur Radio
Two feet of standing water due to heavy rain was reported in an intersection.				
<b>FRANKLIN COUNTY --- 6.0 WNW GAHANNA [40.05, -82.97]</b>				
	07/24/11 17:42 EST		0	Heavy Rain
	07/24/11 18:42 EST		0	Source: Trained Spotter
Standing water was reaching half way up cars due to heavy rain.				
<b>FRANKLIN COUNTY --- 1.5 NE COLUMBUS [40.04, -82.98], 1.5 NE COLUMBUS [40.04, -82.98], 1.6 NE COLUMBUS [40.04, -82.98], 1.5 NE COLUMBUS [40.04, -82.98]</b>				
	07/24/11 18:00 EST		20K	Flash Flood (due to Heavy Rain)
	07/24/11 19:00 EST		0	Source: Trained Spotter
Several people were rescued from their vehicles at the intersection of Karl Road and Norris Drive.				
<b>Outflow pushing east from Indiana combined with pop up thunderstorms over Ohio to produce severe thunderstorms during the afternoon. Some of these storms produced very heavy rainfall and flash flooding. The main threats from these storms were damaging thunderstorm winds and flash flooding due to heavy rain.</b>				
<b>CLARK COUNTY --- NEW CARLISLE [39.93, -84.03]</b>				
	07/29/11 17:54 EST		2K	Thunderstorm Wind (EG 50 kt)
	07/29/11 17:58 EST		0	Source: Law Enforcement
A couple of trees were reported down due to damaging thunderstorm winds.				
<b>MONTGOMERY COUNTY --- 2.0 N TROTWOOD [39.83, -84.32]</b>				
	07/29/11 18:30 EST		1K	Thunderstorm Wind (EG 50 kt)
	07/29/11 18:34 EST		0	Source: Trained Spotter
Large tree limbs were reported down due to damaging thunderstorm winds.				
<b>CLARK COUNTY --- 2.0 ENE SPRINGFIELD [39.93, -83.77]</b>				
	07/29/11 18:45 EST		0	Heavy Rain
	07/29/11 19:45 EST		0	Source: Law Enforcement

Storm Data and Unusual Weather Phenomena - July 2011

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
High water was reported on a road due to heavy rain.				
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FRANKLIN COUNTY --- (LCK)RCKENBCKR ARPT [39.82, -82.93]				
	07/29/11 19:27 EST		0	Thunderstorm Wind (MG 52 kt)
	07/29/11 19:28 EST		0	Source: AWOS

Convection developed during the afternoon across central Ohio ahead of a southward sagging frontal boundary. Some of these storms became severe by the late afternoon and early evening hours. The main threat from these storms was damaging thunderstorm winds.